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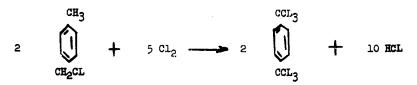
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but received sulfides from Poland for use in the production of viscose by the well known xanthate process.

- 3. The chemical equipment used at Schwarza for the chlorination of parachlormethyl toluene to obtain raw materials for dacron is rather unique due to its design. The chlorination process is quite involved and employs the use of ultra violet light. The equipment consists of a stainless steel tube, approximately 39 inches in length and four inches in diameter, with a smaller glass tube inserted inside in a reaction mixture. At the bottom of the large tube is a glass frit for chlorine. To the right of the frit is an effluent tube where hexochloro-para-xylene is introduced. At the top is an effluent tube for HCL and a smaller inlet tube for para-chloromethyl toluene. The ultra-violet light is in the central glass tube, encased in glass wool, and uses a 110 volt current.
- 4. The chlorine is introduced in the glass frit or sintered plate and bubbles to the top of the tube to effect the chlorination of para chloromethyl toluene to para-hexachloro-toluene. The process is catalyzed by ultra-violet light which is in the central glass tube. The formula is as follows:



PRINCIPAL CHATTERS FOR SPINNING SYNTHETIC FIRERS

5. The principal spinning centers for synthetic fibers in Bast Germany are located at Schwarza, Premnits, Pirma (near Dresden), and Wolfen. The Schwarza plant produces perlon and viscose rayon; Premnits, perlon and daeron; Firma, viscose rayon and perhaps acetate rayon; and Wolfen, perlon. The Premnits plant also was putting into operation, in 1952, a small pilot plant for orlan which has a capacity of 50 - 100 lbs per day.

Synthetic fibers are not produced at Bitterfeld or at Chemnits. Bitterfeld has an electro-chemical factory which produces sodium and chlorine, toluene and other aromatic compounds. Schwarza received its chlorine from Bitterfeld which is also a large sumplier to the I G Farben group.

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CEMUCAL PROCESSES FOR THE PRODUCTION OF INTERMEDIATE MATERIALS

5. The chemical process used for the production of lactam from phenol is well known. Caprolacter is made at Wolfen and Leuna, the only two plants in Hast Germany. Terophthalic acid is produced in Hast Germany, only at Rodleben at a plant which profuces about 50 lbs per day.

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